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FIG.1

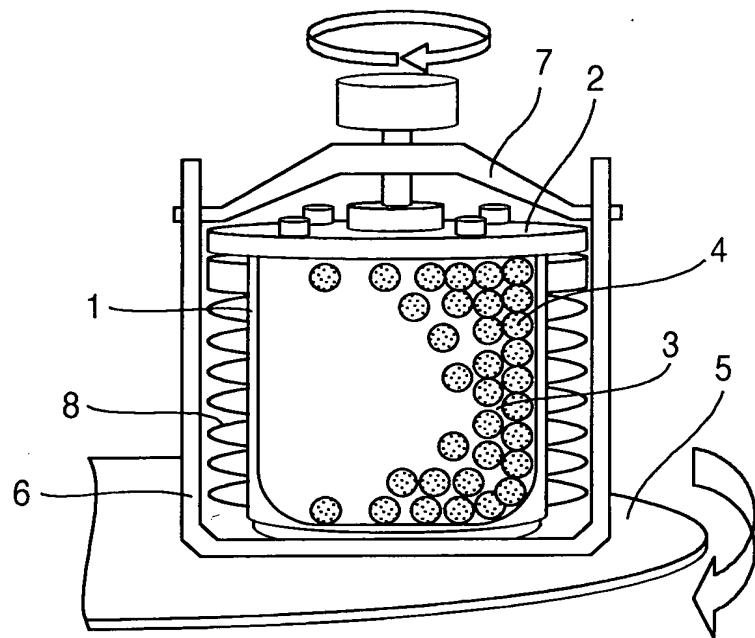


FIG.2

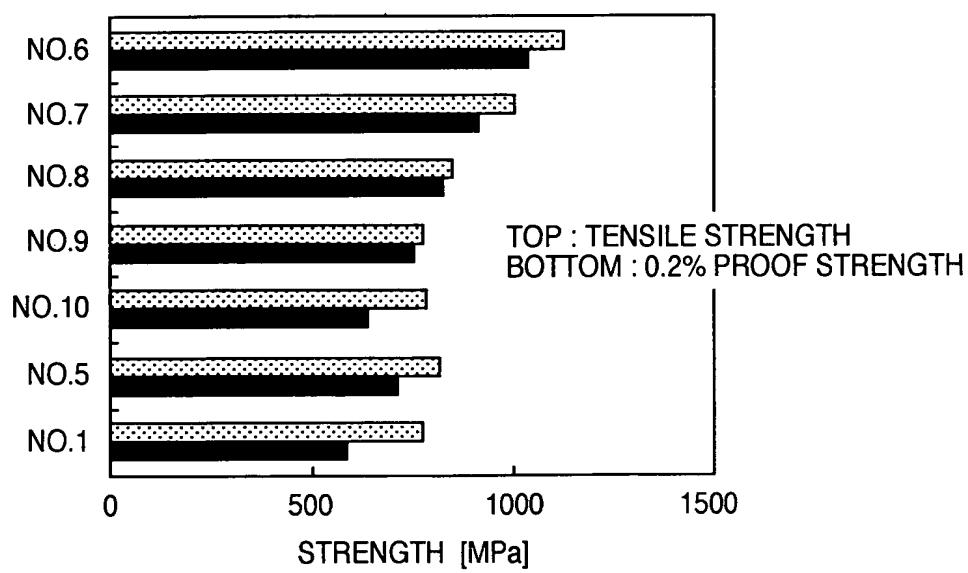
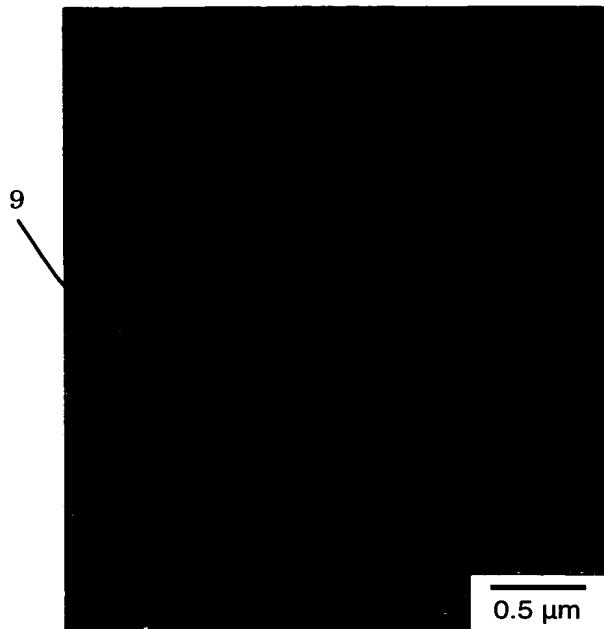


FIG. 3

a) Zr-ADDED MATERIAL



b) Zr-FREE MATERIAL

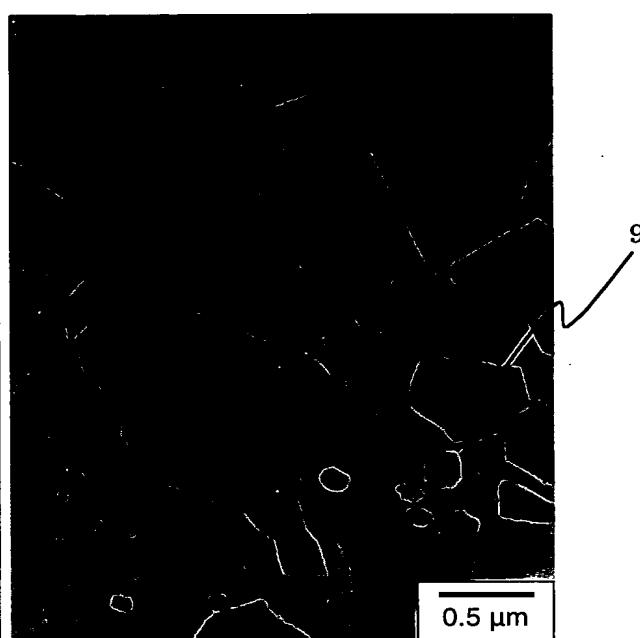


FIG.4

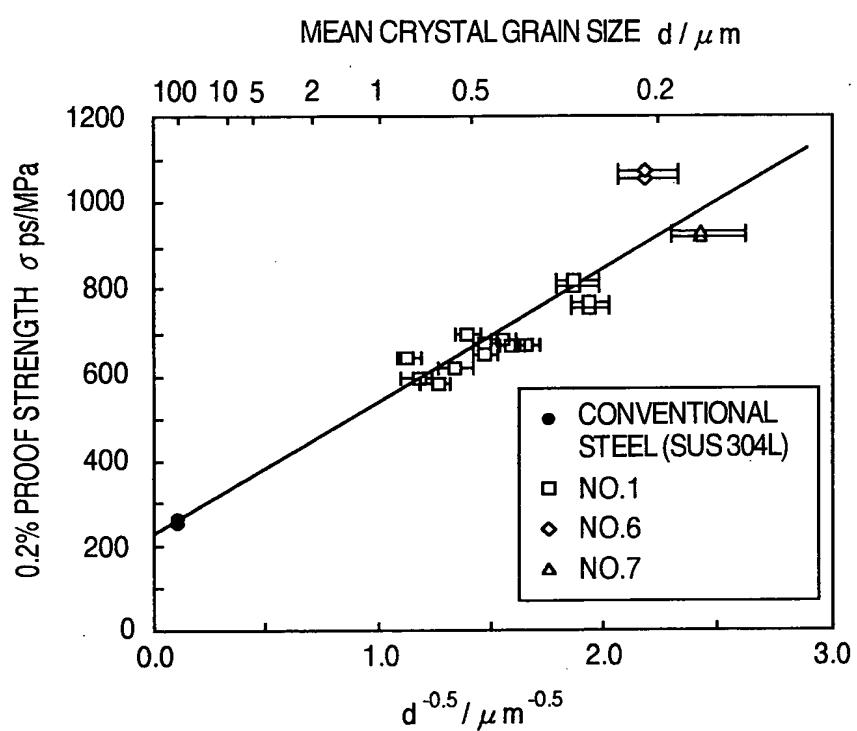
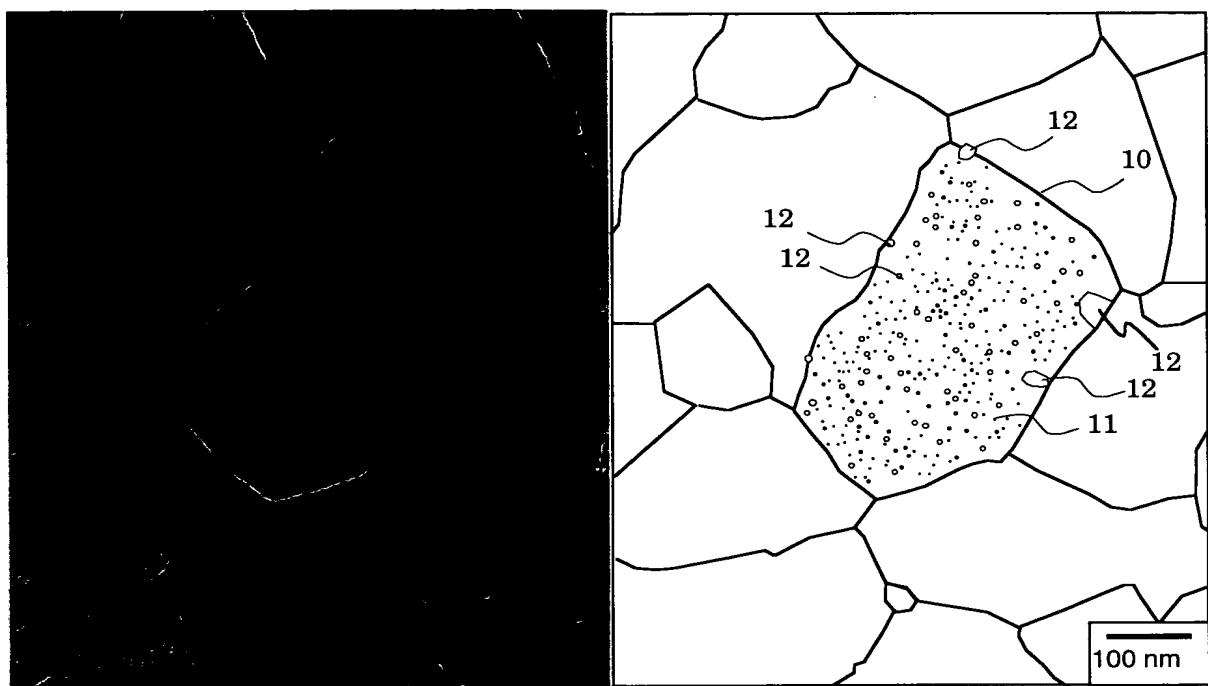


FIG. 5



THE DISPERSED FINE PARTICLES
ARE ILLUSTRATED IN THE
CRYSTAL GRAIN IN THE CENTER ALONE

FIG. 6

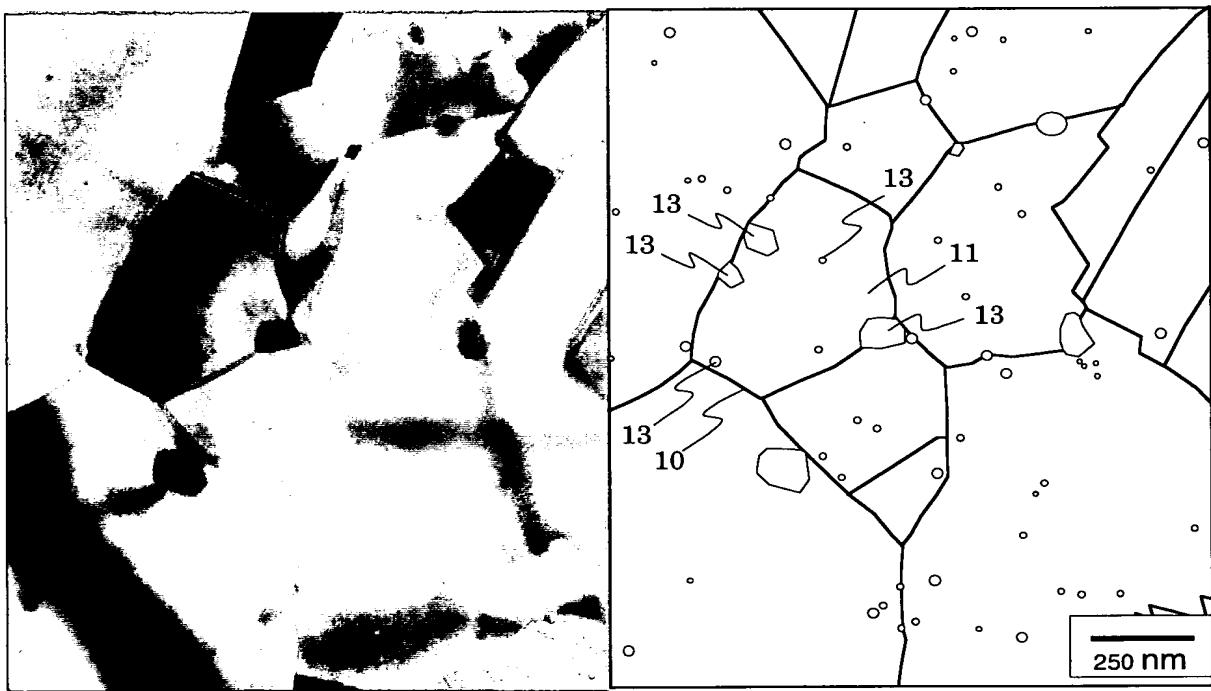


FIG.7

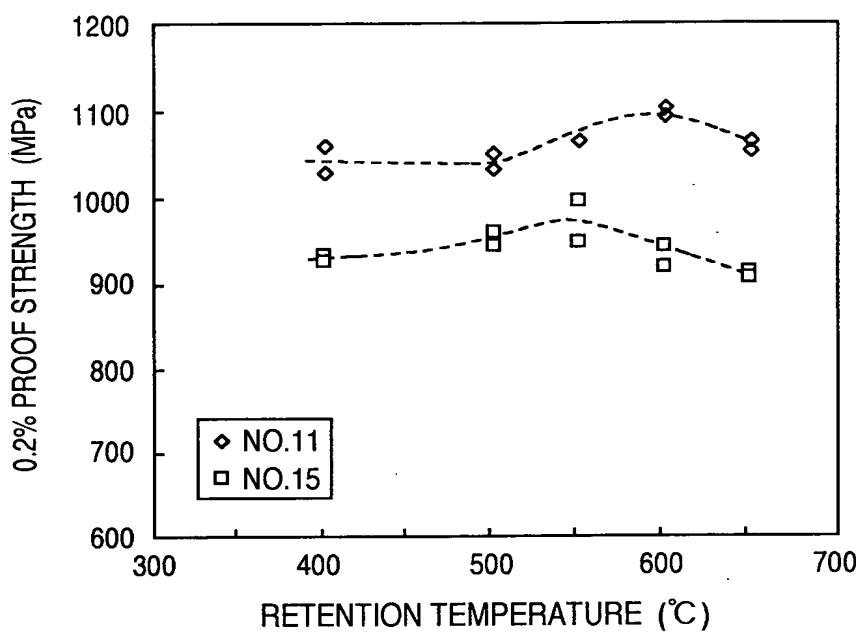


FIG.8

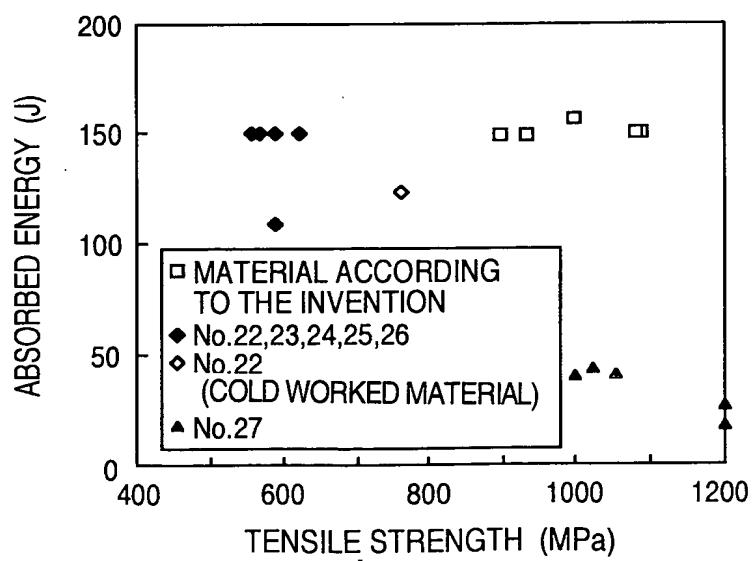


FIG.9

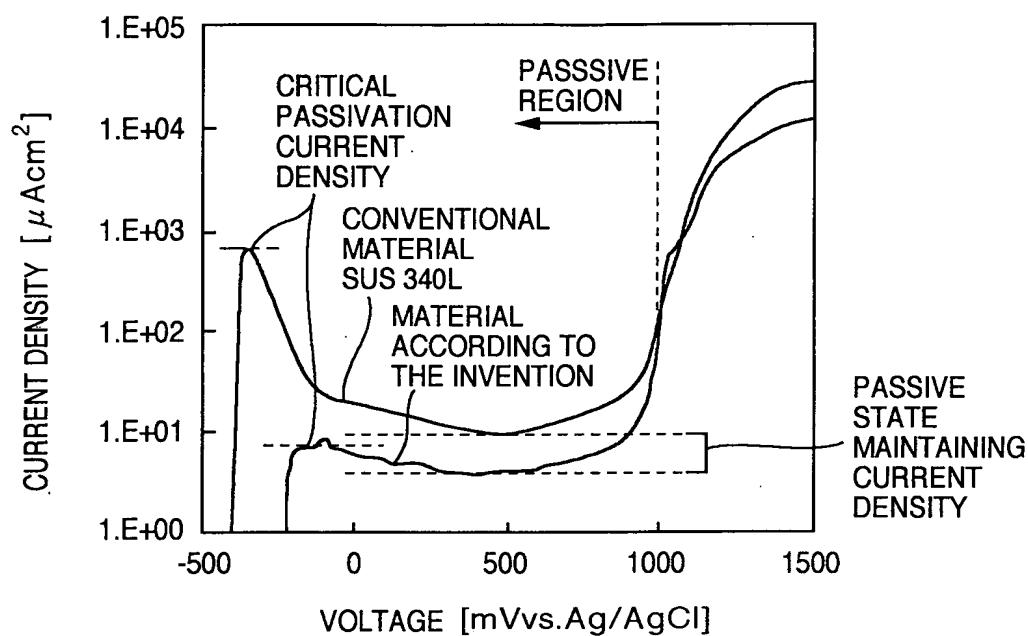


FIG.10

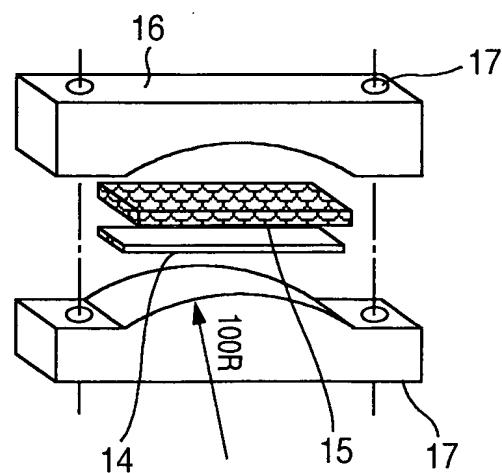


FIG. 11

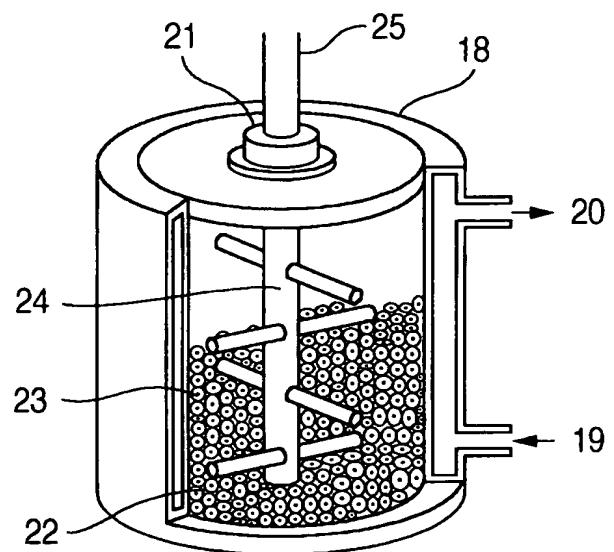
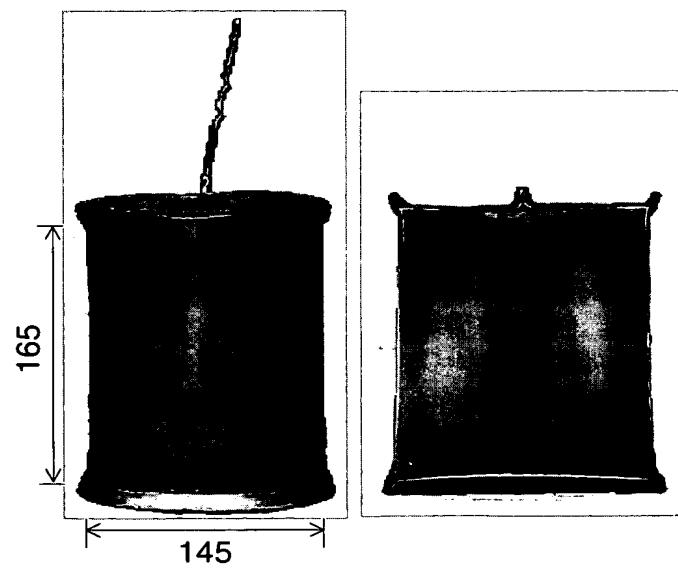


FIG. 12



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FIG. 13

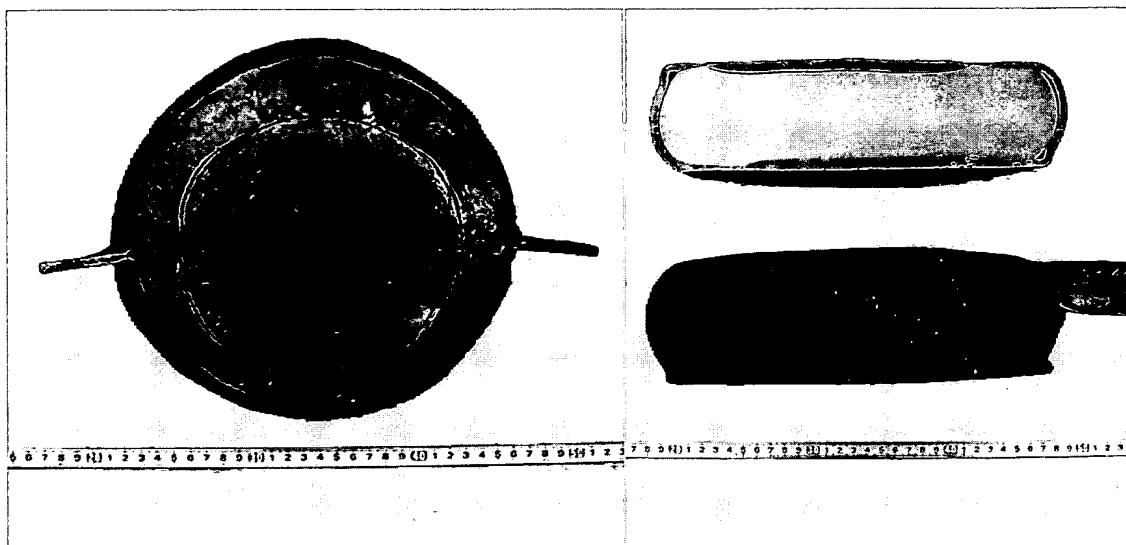
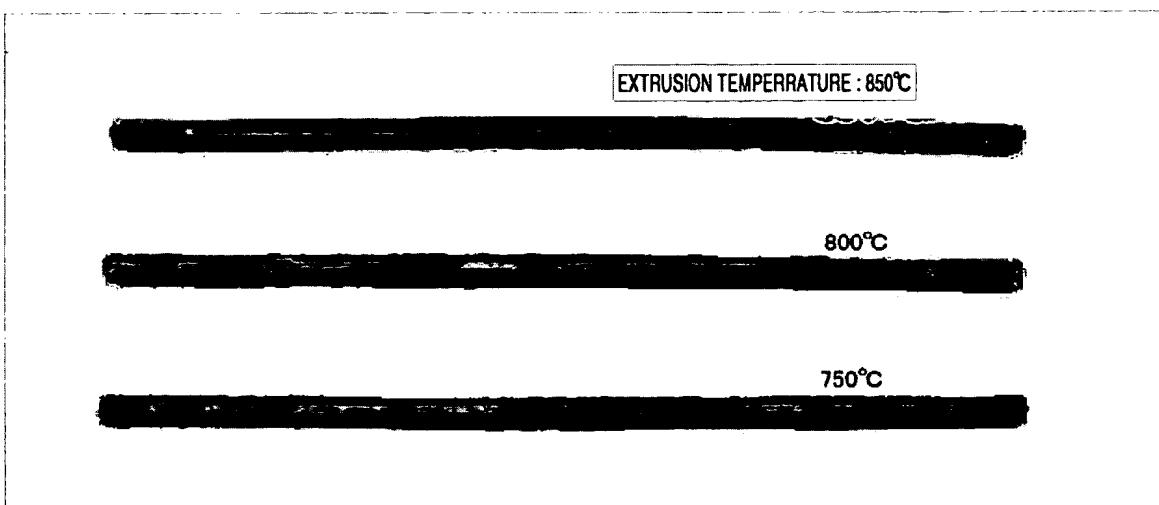


FIG. 14



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FIG.15

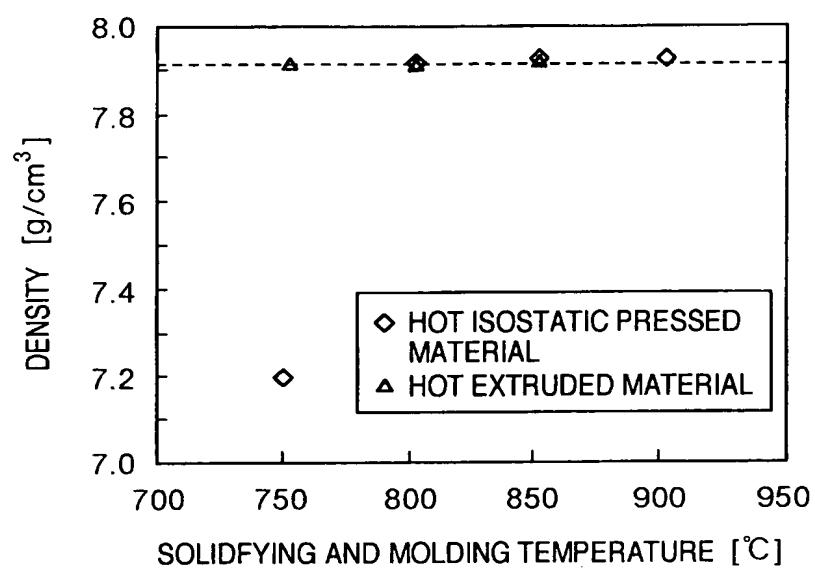


FIG. 16

